

Title (en)
DETACHABLE/REPLACEABLE GIMBAL CAMERA, AERIAL VEHICLE, SYSTEM, AND GIMBAL DETACHMENT/REPLACEMENT METHOD

Title (de)
ABNEHMBARE/AUSWECHSELBARE KARDANISCHE KAMERA, LUFTFAHRZEUG, SYSTEM UND VERFAHREN ZUM ABNEHMEN/
AUSWECHSELN DES KARDANISCHEN SYSTEMS

Title (fr)
CAMÉRA À NACELLE DÉTACHABLE/REMPLAÇABLE, VÉHICULE AÉRIEN, SYSTÈME ET PROCÉDÉ DE DÉTACHEMENT/REMPACEMENT
DE NACELLE

Publication
EP 4050877 A4 20221228 (EN)

Application
EP 20878602 A 20201023

Priority
• CN 201911018698 A 20191024
• CN 2020123319 W 20201023

Abstract (en)
[origin: EP4050877A1] The present invention relates to the field of aircraft technologies, and discloses a replaceable gimbal camera, an aircraft, an aircraft system, and a gimbal replacement method for an aircraft. The replaceable gimbal camera is applied to the aircraft. The aircraft is provided with a fuselage and a gimbal. The replaceable gimbal camera includes an image capture module, a static storage module, and an image processing module. The static storage module is configured to store parameter data. The image processing module is configured to read the parameter data stored in the static storage module, where after the gimbal is replaced, the image processing module is configured to read parameter data of a gimbal after replacement and configure corresponding parameter data for an image capture module of the gimbal after replacement. The costs can be reduced for a user by matching one aircraft with a plurality of replaceable gimbal cameras. In addition, the parameter data is stored in the gimbal camera, so that the parameter data can be quickly read for configuration after gimbal replacement, so that the aircraft is adapted to parameters of different gimbal cameras, to meet the shooting needs of different scenarios.

IPC 8 full level
H04N 5/225 (2006.01); **B64C 27/08** (2006.01); **B64D 47/08** (2006.01); **H04N 5/232** (2006.01); **H04N 5/907** (2006.01)

CPC (source: CN EP US)
B64D 47/08 (2013.01 - CN EP US); **B64U 10/14** (2023.01 - CN EP US); **B64U 2101/30** (2023.01 - US); **G02B 13/14** (2013.01 - US); **G03B 15/006** (2013.01 - EP US); **G03B 17/561** (2013.01 - EP US); **H04N 5/77** (2013.01 - US); **H04N 5/907** (2013.01 - CN US); **H04N 7/015** (2013.01 - US); **H04N 7/183** (2013.01 - US); **H04N 7/185** (2013.01 - EP); **H04N 17/002** (2013.01 - EP); **H04N 23/54** (2023.01 - CN US); **H04N 23/55** (2023.01 - CN US); **H04N 23/617** (2023.01 - EP); **H04N 23/66** (2023.01 - EP US); **H04N 23/67** (2023.01 - CN US); **H04N 23/695** (2023.01 - CN); **B64U 2101/30** (2023.01 - CN EP); **H04N 5/77** (2013.01 - EP); **H04N 5/907** (2013.01 - EP); **H04N 23/663** (2023.01 - EP)

Citation (search report)
• [X1] US 2018274720 A1 20180927 - GUBLER THOMAS [CH], et al
• [X1] WO 2019000842 A1 20190103 - SZ DJI TECHNOLOGY CO LTD [CN] & US 2020137310 A1 20200430 - ZHANG JIAYI [CN], et al
• See also references of WO 2021078270A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4050877 A1 20220831; **EP 4050877 A4 20221228**; CN 110730287 A 20200124; CN 110730287 B 20210730; US 2022247898 A1 20220804; WO 2021078270 A1 20210429

DOCDB simple family (application)
EP 20878602 A 20201023; CN 201911018698 A 20191024; CN 2020123319 W 20201023; US 202217660255 A 20220422